

ASBESTOS SURVEY
RESIDENTIAL BUILDING ASSOCIATED WITH W-L MOLDING CO.
WEST HOUSE/GARAGE
PORTAGE, MICHIGAN

FEBRUARY 10, 2017

Prepared for:

W-L Molding Co. 8212 Shaver Road Portage, Michigan 49024

With support from:

Kalamazoo County Brownfield Redevelopment Authority
201 W. Kalamazoo Avenue
Kalamazoo, MI 49007

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ASBESTOS SURVEY

RESIDENTIAL BUILDING ASSOCIATED WITH W-L MOLDING CO. WEST HOUSE/GARAGE PORTAGE, MICHIGAN

INTRODUCTION

Jhamin, LLC has requested support from the Kalamazoo County Brownfield Redevelopment Authority (KCBRA) in association with the proposed redevelopment of the W-L Molding Co. site. This support includes the use of KCBRA's Grant for Hazardous Substances Contaminated Sites (Cooperative Agreement BF-00E02007-0). The eligibility determination for the site was made by the MDEQ on November 9, 2016 and eligibility was also demonstrated to the U.S. EPA in correspondence dated November 3, 2016. In response to the request, the KCBRA authorized Envirologic to complete an Asbestos Survey of the residential building and detached garage. The residential structures are located on the W-L Molding Co. site, but do not have a street address. For the purposes of this survey, the subject property will be referred to as West House/Garage as the structures are located west of an additional residential structure on the property located at 8140 Shaver Road, Portage, Michigan. The survey was completed in order to identify the types, quantities, locations, and condition of asbestos-containing materials within the building to support demolition activities for the structure.

The Michigan Occupational Safety and Health Administration (MIOSHA) Asbestos Standard for Construction, (29 CFR 1926.1101) and Part 305, the MIOSHA Asbestos Standard for General Industry, (29 CFR 1910.1001), requires that all building facilities (excluding residential owner-occupied homes) constructed prior to 1981, where employees may enter, work, or contact building materials must be inspected for asbestos-containing materials (ACMs). Also, all such buildings scheduled for renovation or demolition must have an asbestos building survey completed prior to the start of the renovation or demolition.

The survey/inspection must adhere to the Asbestos Hazard Emergency Response Act (AHERA) inspection protocol and be performed by a Michigan-accredited asbestos building inspector or Certified Industrial Hygienist (CIH). The building survey must also include the presence, location and quantity of all "suspect" ACMs. Additionally, laboratory analysis information should be a part of the building survey document.

The Notification of Intent to Renovate/Demolish form required by the U.S. EPA NESHAP regulations must be prepared and submitted to the MDEQ—Air Quality Division at least 10 working days prior to demolition of a building, regardless of whether or not ACMs are present in the building. If ACMs are present and included for removal and the quantity is greater than 260 linear feet and/or 160 square feet, a 10-working-day notice is required, as well.

In a June 7, 2004 memorandum, the MIOSHA indicated all companies are required by law to provide annual two-hour asbestos awareness training for their employees who may contact, but do not disturb asbestos-containing materials. If the potential exists for W-L Molding personnel to encounter ACMs and suspect ACMs during renovation, Envirologic recommends such personnel working at the site receive a minimum of two hours asbestos awareness training prior to conducting work activities within the structure.

BACKGROUND

The survey was conducted for one residential building and a detached garage building, known as West House/Garage, located on the W-L Molding Co. site off of Shaver Road in Portage, Michigan. The buildings are vacant and abandoned. Jhamin, Inc. plans to demolish the structures.

In support of the proposed demolition activities planned for the buildings, the KCBRA authorized Envirologic to conduct an asbestos survey to determine the presence or absence of asbestos-containing materials in the residential building identified as West House/Garage in Portage, Michigan. An evaluation of the structures to identify any asbestos containing building materials is needed to remove asbestos containing materials and/or comply with National Emission Standards for Hazardous Air Pollutants (NESHAP) requirement for asbestos during the demolition. Robert L. Webster of Envirologic, licensed asbestos inspector, assessed the building on January 16, 2017.

Scope of Work

Envirologic inspected the subject property buildings including the interior and exterior portions of the structure and portions of the roof to identify suspect asbestos-containing building materials (SACMs). These materials were surveyed in a manner compliant with the sampling protocols of the Asbestos Hazard Emergency Response Act (AHERA). Suspect materials were sampled in accordance with AHERA protocols, and suspect materials were quantified. The survey was completed by Michigan-accredited asbestos building inspectors.

Limitations

All areas of the residential building were accessed. However, physical entry into the detached garage could not be accessed. A visual of materials was observed through the garage window and a tarpaper that was observed could be accessed and sampled through the window. It is possible that other suspect materials exist in this structure that could not be seen or accessed and this represents a limitation. Access to the garage should be obtained prior to demolition to ensure that no additional suspect materials exist. Conversely, any suspect materials found can be assumed as asbestos-containing materials and handled accordingly. No further limitations were encountered.

BUILDING CHARACTERISTICS

The existing buildings are located on the W-L Molding Co. property in Portage, Michigan. The residential building consists of a cinder block construction. Walls are cinder block with fiberboard, wall paneling and plaster in the interior. Interior floors are concrete and the ceiling is wood construction.

No indication of the presence of vermiculite within the cinder block walls was noted based upon observations of the interior of the cinder block at multiple locations. Insulation observed behind walls was fiberglass which is non-suspect and therefore not sampled. Ceiling tiles were observed and sampled in the main house. The ceiling tiles were tacked up so no glue pods or adhesive exist. Several types of floor tile and linoleum were observed and sampled in the main house. Window glazing was found and sampled on the exterior. The roof consisted of asphalt shingles that were sampled. The detached garage was wood construction. Wall tarpaper was observed and sampled. The roof consists or asphalt shingles that were sampled. Window glazing was also observed and sampled on the exterior of the garage building.

ASBESTOS SURVEY METHODOLOGY

Envirologic conducted a survey of the buildings on January 16, 2017. The asbestos inspection was completed by Robert Webster of Envirologic, an accredited Michigan Asbestos Inspector (accreditation number A11251).

Field inspection alone is not conclusive to identify asbestos-containing materials. Therefore, bulk samples of suspected asbestos-containing materials were obtained using U.S. EPA/OSHA protocols by State-accredited inspectors and analyzed to determine if asbestos fibers were present, and if found, the types and percentages of asbestos were reported. This asbestos survey was completed in accordance with a Sampling and Analysis Plan (SAP) approved by the U.S. EPA.

This survey was conducted in support of the proposed demolition of the residential building and detached garage and included destructive sampling. However, the potential exists that concealed or not readily observable potential ACMs may be encountered during demolition activities. Envirologic recommends that when suspect ACMs not identified within this report are encountered for which no analytical data exists, the material(s) remain undisturbed until the asbestos content is determined in accordance with U.S. EPA and OSHA regulations. Envirologic's quantities are intended to be "Order of Magnitude" estimates and the estimated quantities and other information in this report should not be used as an exclusive source of information for bid formulation or for notification to regulatory agencies.

Bulk samples of suspected asbestos-containing materials (SACM) were obtained using U.S. EPA/OSHA protocols by State of Michigan accredited inspectors. An area the approximate size of a half-dollar was thoroughly wetted with water and a wetting agent applied from a handheld spray bottle to reduce fiber release during sample collection. A knife or boring tool was used to cut the outer protective covering to expose the SACM underneath. The knife or boring tool was then employed to remove a small amount of the material for the sample. The sample was then placed in a re-sealable plastic bag, labeled, and secured. Envirologic followed U.S. EPA and OSHA protocols for determining sampling locations and total number of samples taken.

Laboratory descriptions of materials analyzed by Polarized Light Microscopy (PLM) method for asbestos content were based upon the microscopist's perceptions of bulk samples that were pulverized and prepared with dispersion oils for PLM analysis. Due to the preparation of the sampled materials and the minute level of observation by the laboratory personnel, the

descriptions on the Certificates of Analysis may not match the sample descriptions recorded by Envirologic in the field. Envirologic's sample descriptions and locations should be used to identify materials that were sampled and Envirologic's sample numbers should be used to correlate analytical results for the sampled materials.

The samples were submitted to Fibertec Laboratories, Inc. of Holt, Michigan using standard chain of custody procedures. Fibertec holds a National Voluntary Laboratory Accreditation Program (NVLAP) certificate for Bulk Asbestos Fiber Analysis (NVLAP Accreditation # 101510-0). The samples were analyzed in accordance with the U.S. EPA and OSHA protocol for asbestos using PLM/dispersion staining to determine if asbestos fibers were present. If asbestos fibers were found, the type(s) and percentage(s) of asbestos were reported.

For the purposes of this survey, the subject building was segregated into the following functional spaces or functional areas (FA):

• FA-1: main house

• FA-2: exterior

FA-3: roof

• FA-4: garage

A summary of the descriptions of observed materials, observed quantities, and analytical results for sampled suspect asbestos containing materials are presented as Table 2 in Appendix B. A total of 20 bulk samples, inclusive of multiple-layered samples, were collected from interior and exterior portions of the building.

The laboratory analytical report is presented in Appendix C. A summary of the materials identified as containing asbestos is presented in Table 1 below.

ASBESTOS SURVEY RESULTS

Table 1: Asbestos-Containing Materials

| Asbestos Containing Material—West House/Garage, Portage, Michigan | TOTAL QUANTITY sq./ln. ft. |
|--|----------------------------|
| HA-1: 9"x9" black floor tile-(mastic is negative)-Sample ID# West-01-01 | 66 sq. ft. |
| HA-2: 9"x9" red floor tile-(mastic is negative)-Sample ID # West-02-01 | 66 sq. ft. |
| HA-3: 9"x9" rectangle pattern floor tile-(mastic is negative)-Sample ID # West-03-01 | 144 sq. ft. |
| HA-4: 9"x9"tan floor tile-(mastic is negative)-Sample ID # West-04-01 | 21 sq. ft. |
| HA-5: 9"x9" off-white floor tile-(mastic is negative)-Sample ID # West-05-01 | 20 sq. ft. |
| HA-9: Window glazing-(main house interior)-Sample ID # West-09-01 | 8 sq. ft. |
| HA-13: Window glazing-(main house exterior)-Sample ID # West-13-01 | 8 sq. ft. |
| HA-17: Garage window glazing-Sample ID # West-17-01 | 1 sq. ft. |

Photographs of the materials identified as being asbestos containing are presented as Appendix D. Observed location descriptions can be found in Table 2. Additionally, all window glazing tested positive for asbestos. This includes the interior and exterior window glazing on the main house, which consists of eight windows. The exterior window glazing on the detached garage also tested positive. There is one window on the south side of the garage. The interior of the garage was not able to be accessed. If glazing exists on the interior of this window, it should be assumed positive for asbestos.

As indicated, the potential exists that additional suspect ACMs may be encountered during demolition activities. Should suspect ACMs be encountered, Envirologic recommends that the suspect materials not be disturbed until the asbestos content is determined. Conversely, suspect ACMs can be presumed to be asbestos-containing and handled accordingly.

RECOMMENDATIONS

As detailed in Table 1, ACMs consisting of different floor tiles and window glazing were identified in association with the residential building and detached garage. The identification of non-friable ACMs consists of: 9"x9" black floor tile, 9"x9" red floor tile, 9"x9" rectangle pattern floor tile, 9"x9" tan floor tile, 9"x9" off-white floor tile. Based on its condition, the window glazing from the main house, the exterior and the detached garage are considered friable ACMs.

Location descriptions and quantity estimates of asbestos containing materials observed during the inspection can be found in Table 2. Envirologic recommends removal of asbestos-containing building materials by a licensed asbestos contractor in accordance with the OSHA asbestos standard prior to renovation or demolition. Personal and clearance air samples should be collected to demonstrate that asbestos fibers are not released through the abatement process.

Envirologic recommends that when suspect ACMs not identified within this report are encountered for which no analytical data exists, the material(s) remain undisturbed until the asbestos content is determined in accordance with U.S. EPA and OSHA regulations.

Regulatory Information Regarding Asbestos Removal, Renovation and Demolition

According to 40 CFR Part 61, ACMs which could be expected to be disturbed and become friable must be removed prior to renovation/demolition activities, which could be expected to disturb the ACMs. Depending upon the amount of ACM that must be removed prior to renovation, a 10-working- or calendar-day notification to the appropriate regulatory agencies, the MDEQ-AQD and the MDLARA, may be required before abatement work could begin. A licensed asbestos removal contractor, utilizing workers accredited under the requirements of Michigan Act 440, must perform asbestos removal work. Envirologic recommends asbestos abatement project design by a Project Designer accredited under the requirements of Michigan Act 440 and monitoring asbestos removal work with air sampling, visual verification and clearance air monitoring performed by an independent third party. All ACM waste generated should be placed in doubled, labeled waste bags, affixed with a waste generator location label and disposed in a Type II landfill. All ACM waste removed from the site should be inventoried on a Waste Shipment Record that complies with NESHAP regulations, 40 CFR Part 61.

The "Notification of Intent to Renovate/Demolish" form required by the U.S. EPA NESHAP regulations must be prepared and submitted to the MDEQ-Air Quality Division at least 10 working

days prior to demolition of a building, regardless of whether or not ACMs are present in the building.

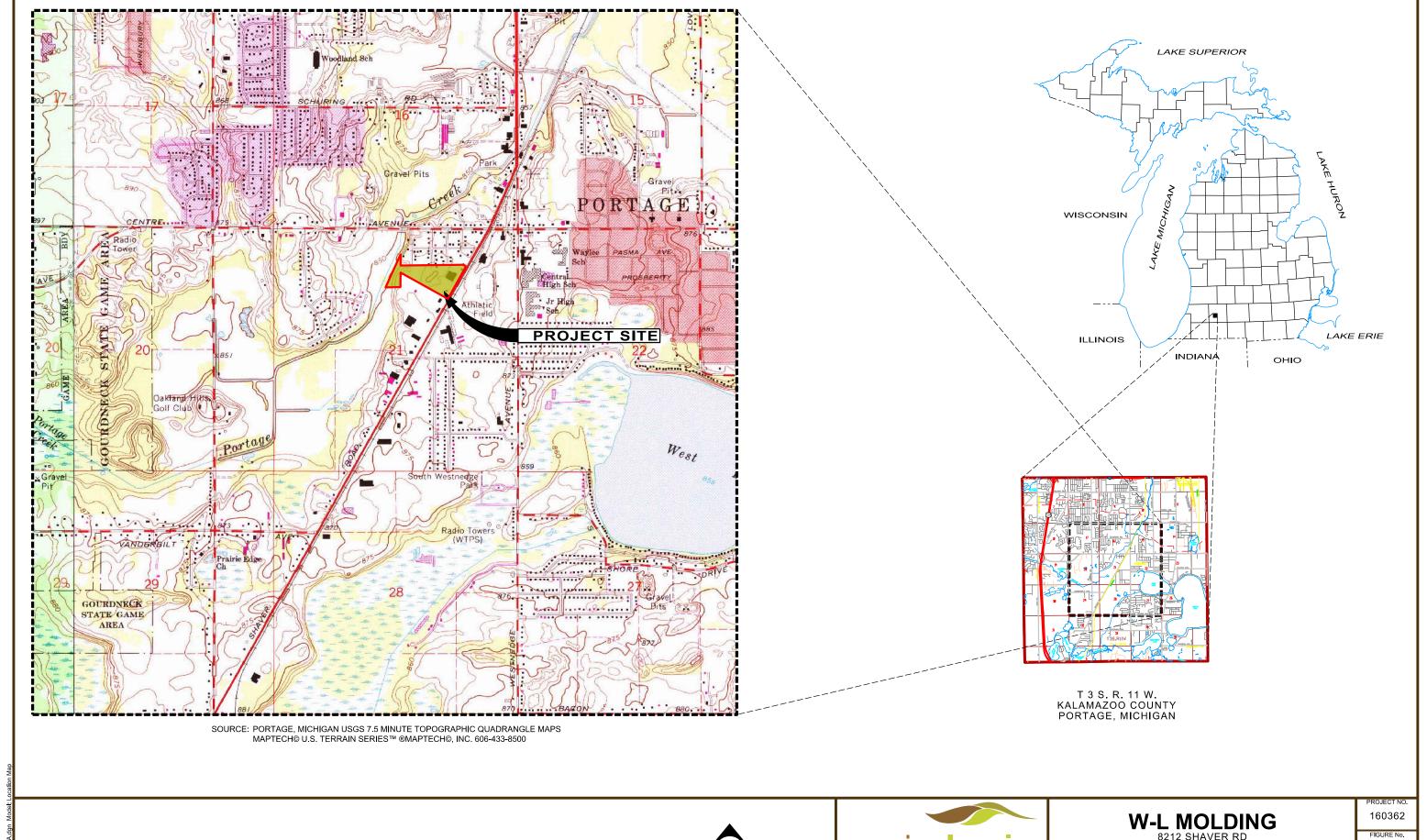
Once an asbestos building survey has confirmed or assumed the presence of ACMs, all employees who work around and may contact, but not disturb ACMs (i.e., persons conducting janitorial, building maintenance and/or housekeeping activities) must receive, at minimum, two-hour asbestos awareness training. Additionally, employees who may disturb ACMs (i.e., persons working with any of the mechanical systems that have asbestos-containing materials) must have additional asbestos-related training that satisfies the class of work activity that they are involved with (i.e., Class I, II, or III).

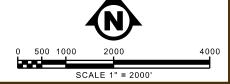
Before allowing a contractor to work on their building, building owners should also ascertain if the contractor has acquired asbestos awareness training. Such training is required when the contractor works in the proximity of ACMs and may contact, but not disturb the material.

Building owners removing asbestos-containing materials from their own structure are not required to be a Michigan-licensed asbestos abatement contractor. However, the building owner's employees performing the work must comply with the requirements of Part 602, the MIOSHA Asbestos Standards for Construction (29 CFR 1926.1101). The Asbestos Abatement Contractors Licensing Act (i.e., Act 135, P.A. 1986, as amended) requires asbestos abatement contractors and exempt trade groups to notify the MDLARA Asbestos Program of any asbestos abatement project exceeding 10 linear feet or 15 square feet, or both, of friable asbestos materials. This requires a 10-calendar-day notice.

APPENDIX A

FIGURE 1: LOCATION MAP







W-L MOLDING 8212 SHAVER RD PORTAGE, MI 49024

LOCATION MAP

APPENDIX B

TABLE 2: FUNCTIONAL SPACE, SAMPLE DESCRIPTION, ASBESTOS ANALYTICAL RESULT SUMMARY



Table 2 West House/Garage Portage, MI

| Space | | | Quantity in | | Sample | | | |
|-------|--------------------|---|-------------|---------|--------------|---------------------------------------|--|------------------------------------|
| Code | Space Name | Description of Material | Space | | Number | Sample Result | Response | Notes |
| | | | | | | Layer 1: 7% Chrysotile | | |
| 1 | FA-1: Main house | HA-1: 9"x9" black FT and mastic | 66 | sq. ft. | West-01-01 | Layer 2: ND | Remove prior to renovation or demolition | in kitchen (Layer 2 is mastic) |
| | | | | · | | Layer 1: 7% Chrysotile | | |
| 1 | FA-1: Main house | HA-2: 9"x9" red FT and mastic | 66 | sq. ft. | West-02-01 | | Remove prior to renovation or demolition | in kitchen (Layer 2 is mastic) |
| 1 | FA-1: Main house | HA-3: 9"x9" rectangle pattern FT and mastic | 144 | sq. ft. | West-03-01 | Layer 1: 5% Chrysotile Layer 2: ND | Remove prior to renovation or demolition | in living room (Layer 2 is mostis) |
| 1 | FA-1. Walli flouse | and mastic | 144 | Sq. II. | West-03-01 | Layer 2. ND | Remove prior to renovation of demolition | in living room (Layer 2 is mastic) |
| | | | | | | Layer 1: 6% Chrysotile | | |
| 1 | FA-1: Main house | HA-4: 9"x9" tan FT and mastic | 21 | sq. ft. | West-04-01 | ' | Remove prior to renovation or demolition | in back room (Layer 2 is mastic) |
| | | | | | | | | |
| | | HA-5: 9"x9" off-white floor tile | | | | Layer 1: 5% Chrysotile | | |
| 1 | FA-1: Main house | and mastic | 20 | sq. ft. | West-05-01 | Layer 2: ND | Remove prior to renovation or demolition | in bathroom (Layer 2 is mastic) |
| 1 | FA-1: Main house | HA-6: brown pattern linoleum | 80 | sq. ft. | West-06-01 | None Detected | None | in backroom |
| | | · | | · | West-07-01 | None Detected None | | |
| | | | | | West-07-02 | Detected None | | |
| 1 | FA-1: Main house | HA-7: patterned plaster | 196 | sq. ft. | West-07-03 | Detected | None | in kitchen and backroom |
| | | | | | | | | |
| 1 | FA-1: Main house | HA-8: fiberboard | 500 | sq. ft. | West-08-01 | None Detected | None | in kitchen and backroom |
| 1 | FA-1: Main house | HA-9: window glazing | 8 | sq. ft. | West-09-01 | 3% Chrysotile | None | 8 windows-throughout area |
| ' | 1 A-1. Wall House | 11A-3. Willdow glazing | U | 3q. it. | W C 31-03-01 | 3 /0 Cili ysotile | None | o windows-throughout area |
| 1 | FA-1: Main house | HA-10: 1'x1' CT | 360 | sq. ft. | West-10-01 | None Detected | None | throughout area |
| | | HA-11: linoleum counter top | | · | | | | |
| 1 | FA-1: Main house | (upper) | 8 | sq. ft. | West-11-01 | None Detected | None | in kitchen |
| | EA 4 M : 1 | HA-12: linoleum counter top | 40 | 44 | N/+ 40 04 | Nama Data ata d | Nama | in the bank and |
| 1 | FA-1: Main house | (lower) | 16 | sq. ft. | West-12-01 | None Detected | None | in kitchen |
| 1 | FA-1: Main house | HA-18: wall linoleum | 162 | sq. ft. | West-18-01 | None Detected | None | around stairs |
| | | | | | | | | |
| 2 | FA-2: Exterior | HA-13: window glazing | 8 | sq. ft. | West-13-01 | 4% Chrysotile | Remove prior to renovation or demolition | 8 windows total |
| | EA 0. D4 | | 750 | 44 | W+ 44 04 | Name Detected | Nama | |
| 3 | FA-3: Roof | HA-14: house roof shingles | 750 | sq. ft. | West-14-01 | None Detected | None | |
| 4 | FA-4: Garage | HA-15: wall tar paper | 3,520 | sq. ft. | West-15-01 | None Detected | None | along all interior walls |
| | <u>_</u> | | | | | | | |
| 4 | FA-4: Garage | HA-16: garage roof shingles | 600 | sq. ft. | West-16-01 | None Detected | None | |
| 4 | EA 4: Carago | HA-17: garage window glazing | 1 | sq. ft. | West-17-01 | 3% Amosite | Remove prior to renovation or demolition | 1 window on south side |
| 4 | FA-4: Garage | TA-17. garage window grazing | I | sq. it. | vvest-17-01 | 3% Amosite | Remove prior to renovation or demolition | i window on south side |

APPENDIX C

FIBERTEC INDUSTRIAL HYGIENE SERVICES, INC. ANALYTICAL REPORTS AND CHAINS OF CUSTODY





| Client Name: | | Envirologic Technologies | | | | |
|-----------------|-----------|---|---------------|--|--|--|
| Project Name: | | K200CO/160362 | | | | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed. | | | | |
| | | | | | | |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A | | | |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 | | | |
| Date Analyzed: | 1/24/2017 | | | | | |

| Fibertec Sample No. | Client I.D. | Description / Location | Asbestos Type | Non-Asbestos Containing Portion | Analyst |
|---------------------------|-------------|--|---------------|---|---------|
| 01-01 | 01-01 | White fibrous material, expansion dampener, 8140-01-01. | NAD | Cellulose fibers 98% Non-fibrous material 2% | СТ |
| 02-01 | 02-01 | Tan tabular material, window glazing, 8140-02-01. | NAD | Non-fibrous material >99% Cellulose fibers <1% | CT |
| 03-01 | 03-01 | Gray cementitious material, plaster, 8140-03-01. | NAD | Non-fibrous material 100% | CT |
| 03-02 | 03-02 | Gray cementitious material, plaster, 8140-03-02. Layer 1 of 2. | NAD | Non-fibrous material >99% Cellulose fibers <1% | СТ |
| 03-02 | 03-02 | Brown fibrous material, plaster, 8140-03-02. Layer 2 of 2. | NAD | Cellulose fibers 99% Non-fibrous material 1% | CT |
| 03-03 | 03-03 | Gray cementitious material, plaster, 8140-03-03. Layer 1 of 2. | NAD | Non-fibrous material 98% Cellulose fibers 2% | СТ |
| 03-03 | 1117-117 | Brown fibrous material, plaster, 8140-03-03. Layer 2 of 2. | NAD | Cellulose fibers 99% Non-fibrous material 1% | СТ |



| Client Name: | | Envirologic Technologies | | | | |
|-----------------|-----------|---|---------------|--|--|--|
| Project Name: | | K200CO/160362 | | | | |
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| | | | | | | |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A | | | |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 | | | |
| Date Analyzed: | 1/24/2017 | | | | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|---|----------------|---|---------|
| 03-04 | 03-04 | Gray cementitious material, plaster, 8140-03-04. Layer 1 of 2. | NAD | Non-fibrous material 99% Cellulose fibers 1% | CT |
| 03-04 | 03-04 | Pink cementitious material, plaster, 8140-03-04. Layer 2 of 2. | NAD | Non-fibrous material >99% Cellulose fibers <1% | CT |
| 03-05 | 03-05 | Gray cementitious material, plaster, 8140-03-05. Layer 1 of 2. | NAD | Non-fibrous material 100% | CT |
| 03-05 | 03-05 | Blue cementitious material, plaster, 8140-03-05. Layer 2 of 2. | NAD | Non-fibrous material >99% Cellulose fibers <1% | CT |
| 04-01 | 04-01 | White tabular material, stone pattern linoleum, 8140-04-01. Layer 1 of 2. | NAD | Non-fibrous material 100% | CT |
| 04-01 | 04-01 | Brown fibrous material, stone pattern linoleum, 8140-04-01. Layer 2 of 2. | Chrysotile 30% | Non-fibrous material 50% Cellulose fibers 20% | CT |
| 05-01 | 05-01 | White tabular and rubbery material, stair tread, 8140-05-01. | NAD | Non-fibrous material 100% | СТ |



| Client Name: | | Envirologic Technologies | | | | | |
|-----------------|-----------|---|---------------|--|--|--|--|
| Project Name: | | K200CO/160362 | | | | | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed. | | | | | |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A | | | | |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 | | | | |
| Date Analyzed: | 1/24/2017 | | | | | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|---|---------------|---|---------|
| 06-01 | 06-01 | Cream tabular and rubbery material, off-white linoleum, 8140-06-01. | NAD | Non-fibrous material >99% Cellulose fibers <1% | СТ |
| 07-01 | 07-01 | Brown fibrous material, brown wall insulation, 8140-07-01. | NAD | Cellulose fibers 99% Non-fibrous material 1% | CT |
| 08-01 | 08-01 | White tabular material, pink stone pattern linoleum, 8140-08-01 Layer 1 of 2. | NAD | Non-fibrous material >99% Cellulose fibers <1% | СТ |
| 08-01 | 08-01 | Brown fibrous material, pink stone pattern linoleum, 8140-08-01 Layer 2 of 2. | NAD | Cellulose fibers 99% Non-fibrous material 1% | СТ |
| 09-01 | 09-01 | Tan tabular material, interior window glazing, 8140-09-01. | NAD | Non-fibrous material 100% | СТ |
| 10-01 | 10-01 | Gray cementitious material, drywall, 8140-10-01. | NAD | Non-fibrous material 98% Cellulose fibers 2% | СТ |
| 11-01 | 11-01 | White tabular material, joint compound, 8140-11-01. | NAD | Non-fibrous material 100% | СТ |



| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | • |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed: | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|--|---------------|--|---------|
| 12-01 | 12-01 | Black fibrous and asphaltic material, brown pattern linoleum, 8140-12-01, | NAD | Cellulose fibers 95% Non-fibrous material 5% | CT |
| 13-01 | 13-01 | Black and tan fibrous and asphaltic material, black tar paper, 8140-13-01. | NAD | Cellulose fibers 90% Non-fibrous material 10% | СТ |
| 14-01 | 14-01 | White tabular material, white exterior caulk, 8140-14-01. | Chrysotile 3% | Non-fibrous material 96% Cellulose fibers 1% | СТ |
| 15-01 | 15-01 | Tan tabular material, basement window glazing, 8140-15-01. | Chrysotile 4% | Non-fibrous material 96% | CT |
| 16-01 | 16-01 | Cream tabular material, white caulk around wood siding, 8140-16-01. | Chrysotile 3% | Non-fibrous material 97% | СТ |
| 17-01 | 1 1/-01 | Black fibrous and asphaltic material, house roof shingles, 8140-17-01. | NAD | Non-fibrous material 90% Cellulose fibers 10% | СТ |
| 18-01 | | Black fibrous and asphaltic material, loose roof material, 8140-18-01. | NAD | Cellulose fibers 70% Non-fibrous material 30% | СТ |



| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | 1. |
| Date Sampled: | 1/16/2017 | Client P.O. #; | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed: | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|-------------|---|---------------|--|---------|
| 19-01 | 19-01 | Black fibrous and asphaltic material, roll of tar paper, 8140-19-01. | NAD | Cellulose fibers 70% Non-fibrous material 30% | CT |
| 20-01 | 20-01 | Black fibrous and asphaltic material, garage roof shingles, 8140-20-01. | NAD | Non-fibrous material 50% Fibrous glass 50% | CT |
| 21-01 | 21-01 | Black fibrous and asphaltic material, blue linoleum, 8140-21.01. | NAD | Cellulose fibers 85% Non-fibrous material 15% | СТ |
| 22-01 | 22-01 | Black fibrous and asphaltic material, brick pattern linoleum, 8140-22-01. | NAD | Cellulose fibers 80% Non-fibrous material 20% | CT |
| 23-01 | 23-01 | Black fibrous and asphaltic material, flower pattern linoleum, 8140-23-01. | NAD | Cellulose fibers 80% Non-fibrous material 20% | CT |
| 24-01 | 24-01 | Black fibrous and asphaltic material, blue flower pattern linoleum, 8140-24-01. | NAD | Cellulose fibers 75% Non-fibrous material 25% | СТ |
| W01-01 | W01-01 | Green tabular material, 9" x 9" black floor tile, West-01-01. Layer 1 of 2. | Chrysotile 7% | Non-fibrous material 93% | СТ |



| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | i |
| | | | |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed: | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|---|---------------|---|---------|
| W01-01 | W01-01 | Black asphaltic material, mastic, 9" x 9" black floor tile, West-01-01. Layer 2 of 2. | NAD | Non-fibrous material 100% | CT |
| W02-01 | W02-01 | Gray tabular material, 9" x 9" red floor tile, West-02-01. Layer 1 of 2. | Chrysotile 7% | Non-fibrous material 92% Cellulose fibers 1% | CT |
| W02-01 | W02-01 | Black asphaltic material, mastic, 9" x 9" red floor tile, West-02-01. Layer 2 of 2. | NAD | Non-fibrous material 98% Cellulose fibers 2% | CT |
| W03-01 | W03-01 | Beige tabular material, 9" x 9" rectangular pattern floor tile, West-03-01. Layer 1 of 2. | Chrysotile 5% | Non-fibrous material 94% Cellulose fibers 1% | СТ |
| W03-01 | W03-01 | Black asphaltic material, mastic, 9" x 9" rectangular pattern floor tile, West-03-01. Layer 2 of 2. | NAD | Non-fibrous material 99% Cellulose fibers 1% | СТ |
| W04-01 | W04-01 | Yellow tabular material, 9" x 9" tan floor tile, West-04-01. Layer 1 of 2. | Chrysotile 6% | Non-fibrous material 94% | СТ |
| W04-01 | W04-01 | Black asphaltic material, mastic, 9" x 9" tan floor tile, West-04-01. Layer 2 of 2. | NAD | Non-fibrous material 100% | СТ |



Fibertec IHS Project #39655-1 NVLAP Accreditation #101510-0

| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | l |
| | | | |
| Date Sampled: | 1/16/2017 | _ Client P.O. #: | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed: | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|-------------|--|---------------|---|---------|
| W05-01 | W05-01 | Yellow tabular material, 9" x 9" offwhite floor tile, West-05-01. Layer 1 of 2. | Chrysotile 5% | Non-fibrous material 95% | CT |
| W05-01 | W05-01 | Black asphaltic material, mastic, 9" x 9" off-white floor tile, West-05-01. Layer 2 of 2. | NAD | Non-fibrous material 99% Cellulose fibers 1% | CT |
| W06-01 | W06-01 | Black fibrous and asphaltic material, brown pattern linoleum, West-06-01. | NAD | Cellulose fibers 70% Non-fibrous material 30% | CT |
| W07-01 | W07-01 | White tabular material, plaster, West-07-01. | NAD | Non-fibrous material >99% Cellulose fibers <1% | CT |
| W07-02 | W07-02 | White tabular material, plaster, West-07-02. | NAD | Non-fibrous material 100% | CT |
| W07-03 | W07-03 | White tabular material, plaster, West-07-03. | NAD | Non-fibrous material >99% Cellulose fibers <1% | CT |
| W08-01 | W08-01 | Gold fibrous material, fiberboard, West-08-01. | NAD | Cellulose fibers 100% | СТ |

1914 Holloway Drive, Holt, Michigan 48842

Telephone: (517) 699-0345 Facsimile: (517) 699-0382



| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed: | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|---|---------------|--|---------|
| W09-01 | W09-01 | Cream tabular material, interior window glazing, West-09-01. | Chrysotile 3% | Non-fibrous material 96% Cellulose fibers 1% | СТ |
| W10-01 | W10-01 | Gold fibrous material, 1' x 1' ceiling tile, West-10-01. | NAD | Cellulose fibers 99% Non-fibrous material 1% | CT |
| W11-01 | W11-01 | Black fibrous and asphaltic material, upper linoleum counter top, West-11-01. | NAD | Cellulose fibers 75% Non-fibrous material 25% | СТ |
| W12-01 | W12-01 | Black fibrous and asphaltic material, lower linoleum counter top, West-12-01. | NAD | Cellulose fibers 75% Non-fibrous material 25% | CT |
| W13-01 | W13-01 | Cream tabular material, exterior window glazing, West-13-01. | Chrysotile 4% | Non-fibrous material 96% | СТ |
| W14-01 | W14-01 | Black asphaltic and granular material, house shingles, West-14-01. | NAD | Non-fibrous material 85% Cellulose fibers 15% | СТ |
| W15-01 | I VV I 3-171 I | Black fibrous material, garage tar paper, West-15-01. | NAD | Cellulose fibers 90% Non-fibrous material 10% | CT |

Fibertec industrial hygiene services, inc.

BULK SAMPLE ANALYTICAL REPORT

Fibertec IHS Project #39655-1 NVLAP Accreditation #101510-0

| Client Name: | | Envirologic Technologies | |
|-----------------|-----------|--|---------------|
| Project Name: | | K200CO/160362 | |
| Summary: | | 48 Submitted Bulk Samples, 59 Sample Layers Analyzed | • |
| Date Sampled: | 1/16/2017 | Client P.O. #: | N/A |
| Date Submitted: | 1/18/2017 | C.O.C. #: | 153627-153632 |
| Date Analyzed | 1/24/2017 | | |

| Fibertec Sample No. | Client I.D. No. | Description / Location | Asbestos Type | Non-Asbestos-Containing Portion | Analyst |
|---------------------------|--------------------|--|---------------|--|---------|
| W16-01 | W16-01 | Black fibrous and granular material, garage roof shingles, West-16-01. | NAD | Cellulose fibers 90% Non-fibrous material 10% | CT |
| W17-01 | W17-01 | Cream tabular material, garage window glazing, West-17-01. | Amosite 3% | Non-fibrous material 96% Cellulose fibers 1% | СТ |
| W18-01 | W18-01 | Black fibrous and asphaltic material, wall linoleum, West-18-01. | NAD | Cellulose fibers 98% Non-fibrous material 2% | CT |

1914 Holloway Drive, Holt, Michigan 48842

Telephone: (517) 699-0345 Facsimile: (517) 699-0382



Comments

Bulk samples are analyzed using the USEPA Test Method EPA/600/R-93/116. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. Fine fibers like those in floor tile may not be discernible by this method. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted. Test items were received in acceptable condition. Revision 4.0 dated 12/8/2010.

If no asbestos was/were detected in the sample/samples the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Approved Signatory:

Date:

Fibertec environmental services

Analytical Laboratory 1914 Holloway Drive

8660 S. Mackinaw Trail Phone: 231 775 8368 Cadillac, Mi 49601 Fax: 231 775 8584 Phone: 517 699 0345

email: lab@fibertec.us

Holf, MI 48842

1914 Holloway Drive Phone: 517 699 0345 Fax: 517 699 0382 Holf, MI 48842

Industrial Hygiene Services, Inc.

email: asbestos@fibertecihs.com

11766 E. Grand River Rd. Phone: 810 220 3300 Fax: 810 220 3311 Brighton, MI 48116 Geoprobe

Chain of Custody #

| Client Name: | | inolo | Envirologic Technologies | | | PARAMETERS | | × | Matrix Code | Deliverables |
|--------------------------|--------------------------|------------------|--|--------------|---------------|--|----------------------------------|---------------|---------------------------------|--------------|
| Contact Person: | - 1 | Dan | Dave Stepink | | 212 | | S | Soil | Gw Ground Water | Level 2 |
| Project Name/ Number: | % Number: \$20 | 000 | mber: 160362 | CODE) | Kjone | | | O Ai | Sw Surface Water ww Waste Water | Level 3 |
| Email distribution list: | ion list: | k Ce | dstesmk Cenvirologic. com | СОВИЕВ ГОВ С | ****** | | IG SAMPI | Wipe | x Other; Specify | |
| Quote# | | | | тноя зз | • | | ОН | | Samples | |
| Purchase Order# | er# | | | | | | | | | |
| Date | Time | Sample # | Client Sample Descriptor | | 70 | | Re | Remarks: | | |
| 1/10/1 | 1 | | VSH10-01-01 expansion dampener | X | ·+ | | | | | |
| | ı | | 8140-02-01 window alazina | _ | + | | | | | |
| | 1 | | | | + | | | | | |
| | ſ | | | | 4 | | | | | |
| | } | | 18140-02-03 plaster | | + | | | | | |
| | ı | | \$140-03-04 plaster | | - | | | | | |
| | 1 | | 18140-03-05 + lacter | 11 | + | | | | | |
| | 1 | | 18140-04-01 stonepattern froteum | | 1 | | | | | |
| | ſ | | 48140-05-01 staintread | | 4 | | | | | |
| → | • | | 8140-06-01 off-white Indewn | フラ | 7 | | | | | |
| Comments: | | | | | | | | | | |
| Sampled/Relinguished By: | aguished By: | The | | Date/ Time | 90 | Receiped | Handely | - | 8/17 10:49 | |
| Relinguished | A TEMBER | 46 | PH:01 L1/8/11 | Date/ Time | <u>ق</u> | Received By: | + Ten | BB | 1-24-17 | |
| Refinquished By | 3%: | | | Date/ Time | ЭU | Received By Laboratory | soratory: | | | |
| | | - - | <u> Lunaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | HE BUSIN | ESS DAY | | | | LAB USE ONLY | |
| 1 bus. day | day | | .2 bus. days3 bus. days | 4 | 4 bus, days | | Fibertec project number: | t number: | | |
| - 5-7 bu | 5-7 bus, days (standard) | idard) | Other (specify time/date requirement): | | | | Temperature upon receipt at Lab: | oon receipt o | ıt Lab: | |
| | | | Please | see b | ack for terms | Please see back for terms and conditions | | | | |

Fibertec environmental services

Analytical Laboratory

1914 Holloway Drive Phone: 517 699 0345 Fax: 517 699 0388 Holt, MI 48842

email: lab@fibertec.us

8660 S. Mackinaw Trail Phone: 231 775 8368 Cadillac, MI 49601 Fax: 231 775 8584

Industrial Hygiene Services, Inc.

1914 Holloway Drive Phone: 517 699 0345 Fax: 517 699 0382 Holf, MI 48842

email: asbestos@fibertecihs.com

Phone: 810 220 3300 Brighton, MI 48116 Fax: 810 220 3311 Geoprobe

11766 E. Grand River Rd.

153628 Chain of Custody#

| Client Name: Envirologic Technologies | | PARAMETERS | TERS | W | Matrix Code | Deliverables |
|---|--------------|--|-------------------------|----------------------------------|------------------------------|--------------|
| Contact Person: Dave Stepin L | | 2 | | S Soil | Gw Ground Water | Level 2 |
| Project Name/ Number: 16036 3 | (300 | 35KJVV | 3 | ₹ Ö ∢ O | SW Surface Water Worth Worth | Level 3 |
| Email distribution list: dstegin L Cenvirologic.com | СОВИЕВ ЕОВ С | <mark>ष्ट्र उत्प</mark> त | J¶MA\$ QJ | | x Other Specify | EDD |
| Quote# | тнэв ээ | 392 | ОН | | Samples | |
| Purchase Order# | _ | · W | | | | |
| Date Time Sample # Client Sample Descriptor | | 74 | | Remarks: | | |
| 16/17 - 8140-07-01 bram wall insolation | - × | + | | | | |
| - 18140-98-01 prikstone pattern Indew | 1 1 | - | | | | |
| 8140-09-01 interiorwindow staring | | 1 | | | | |
| ~ (8140-10-01 drunal) | | + | | | | |
| - 18140-11-01 rong compound | | + | | | | |
| - 8140-12-01 brown pattern Indeam | | | | | | |
| - \ 8140-13-01 black far Dopie | | + | | | | |
| - value-14-0) whiteexterior cault | | † | | | | |
| 18140-15-01 basement window staring | | + | | | | |
| | → → | + | | | | |
| Comments: | | | | | | |
| Sampled/Relinquished By | Date/ Time | Receip | W. Child | | PU:01 71191 | |
| PUTCI LINNING INSTITUTION | Date/ Time | Receive | Ever Te | all | 1-42-17 | |
| | Date/ Time | Receive | Received By Laboratory: | 4 | | |
| <u>Iumaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | HE BUSINESS | DAY | | | LAB USE ONLY | |
| l bus. day2 bus. days3 bus. days | 4 bu | 4 bus. days | Fibertec pro | Fibertec project number: | | |
| X 5.7 bus. days (standard) Other (specify time/date requirement): | | | Temperatur | Temperature upon receipt at Lab: | of Lab: | |
| Please | see bac | Please see back for terms and conditions | ditions | | | |



Analytical Laboratory 1914 Holloway Drive

Holt, MI 48842

email: lab@fibertec.us

Fax: 517 699 0382 emall: asbestos@fibertecihs.com Phone: 517 699 0345 Holf, MI 48842

Industrial Hygiene Services, Inc.

1914 Holloway Drive

Geoprobe

11766 E. Grand River Rd. Phone: 810 220 3300 Fax: 810 220 3311 Brighton, MI 48116

153629 PAGE 3 of 5 Chain of Custody #

| Client Name: Entrologic Technologies | | | PARAMETERS | | Mo | Matrix Code | Deliverables | _ |
|--|----------------------|-----------------------------------|-------------------------|----------------------------------|---------------|------------------|--------------|------|
| Contact Person: Dane Steams | | | | S | Soil | GW Ground Water | Level 2 | _ |
| Project Name/ Number: | ODE | 2 <u>0</u> 172717 | | E O | Air O | sw Surface Water | Level 3 | |
| Email distribution list: | 1ЕВ2 СОВИЕВ ЬОВ С | Asdra | | 19MA\$ | | x Other: Specify | EDD | |
| Quote# | тнэя зэ | | | DΗ | | | - | _ |
| Purchase Order# | | | | | | | | _ |
| Date Time Sample # Client Sample Descriptor | | | | ä | Remarks: | | | _ |
| 1/4/17 - VRHO-17-01 house roof shingles | - × | + | | | | | | _ |
| - VRI40-18-01 looseroof material | _ | + | | | | | | _ |
| - V8140-19-01 roll of tar paper | | T | | | | | | _ |
| ~ 8140-20-01 garageroof shingles | | + | | | | | | |
| - 18140-21-01 blue Inpleum | | + | | | | | | - |
| 8140-33-01 brick pattern Imeleum | | + | | | | | | _ |
| - 18140-23-01 Slower pattern Incheun | | + | | | | | | |
| - 18140-24-01 bluestavereatten lineterm | | + | | | | | | |
| 1/16st-01-01 \$ mache | | + | | | | | | _ |
| 64.6 | | + | | | | | | 1111 |
| Comments: | | | | s | | | | |
| Sampled/Relinquished By: | Date/ Time | 90 | Received V. | Turtas | 1 | 9/17 10:49 | | |
| PHIOTITION 10:49 | Date/Time | 91 | Received By: | Ten | R | 1-14-17 | | 1111 |
| | Date/ Time | 16 | Received By Laboratory: | atory: | | | | |
| <u>Iurnaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | THE BUSINI | SS DAY | | | | LAB USE ONLY | | |
| 1 bus. day2 bus. days3 bus, days | 4 | ,4 bus. days | | Fibertec project number: | t number: | | | |
| 4 5-7 bus, days (standard) Other (specify time/date requirement): | | | | Temperature upon receipt at Lab: | pon receipt c | ut Lab: | | |
| Please | see bo | see back for terms and conditions | and conditions | | | | | |



Analytical Laboratory

8660 S. Mackinaw Trail Phone: 231 775 8368 Cadillac, MI 49601 Fax: 231 775 8584 1914 Holloway Drive Phone: 517 699 0345 Fax: 517 699 0388

Holt, MI 48842

emall: lab@fibertec.us

Industrial Hygiene Services, Inc.

Phone: 517 699 0345 Fax: 517 699 0382 emall: asbestos@ilbertecihs.com 1914 Holloway Drive Holf, MI 48842

Phone: 810 220 3300 Fax: 810 220 3311 Brighton, MI 48116 Geoprobe

11766 E. Grand River Rd.

153630 Chain of Custody#

| Client Name: Envirologic Technologies | | | PARAMETERS | | Matrix Code | Deliverables |
|--|---------------|--|-------------------------|----------------------------------|------------------|--------------|
| Contact Person: Dave Stepin K | | 21 | | S Soil | GW Ground Water | Level 2 |
| Project Name/ Number: V200C0/160363 | (300: | iskiru | | 0 ► 0 F | sw Surface Water | Level 3 |
| Email distribution list: dskgink@envirologic.com | CORNER FOR C | 1682 162 011 | | | <u> </u> | Samples |
| Quote# | EE RIGHT | AIATN SOL | | ЭН | | • |
| Purchase Order# | RIX (se | | | | | |
| Date Time Sample # Client Sample Descriptor | П | 7d 10 # | | Remarks: | | |
| 16/17 - West-03-01 giragi rectangular per | X Star | + | | | | |
| Just-04-01 4005 the floor title | | + | | | | |
| Vuest-05-01 tmaste | +te | 4 | | | | |
| - West-06-01 brown pathers Indiens | Cupa | 1 | | | | |
| - Lucst-07-01 plaster | | + | | | | |
| - west-07-03 olaster | | + | | | | |
| | | + | | | | |
| | | + | | | | |
| | rins | + | | | | |
| West-10-01 1'x1' ceilma tile | -> | *! | | | | |
| Comments: | | | | | | |
| Sampled/Relinquished By: | Date/ Time | Iime | Received B. | THE MAN | Ph:C1 7/18/1 | 5 |
| Miles Haware 1/18/17 10:49 | Date/ Time | Time | Received By: | En 18 R | 4-17 | |
| Řelinquíshed/Bý: | Date/ Time | Time | Received By Laboratory: | atory: | | |
| <u>Ivrnaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | ND OF THE BUS | INESS DAY | | | LAB USE ONLY | |
| 1 bus, day 2 bus, days 3 bus, days | | _4 bus. days | | Fibertec project number: | oer: | |
| 5-7 bus. days (standard) Other (specify time/date requirement):_ | | | | Temperature upon receipt at Lab: | ceipt at Lab: | |
| PI | edse see | Please see back for terms and conditions | and conditions | | | |



Holf, MI 48842

Analytical Laboratory 1914 Holloway Drive

8660 S. Mackinaw Trail Phone: 231 775 8368 Fax: 231 775 8584 Cadillac, MI 49601 Phone: 517 699 0345 Fax: 517 699 0388 email: lab@ilbertec.us

Fax: 517 699 0382 email: asbestos@fibertecihs.com 1914 Holloway Drive Phone: 517 699 0345 Holf, MI 48842

Industrial Hygiene Services, Inc.

11766 E. Grand River Rd. Brighton, Ml 48116 Geoprobe

| # /x | 2 | |
|-----------|----|------|
| Custody # | 63 | of |
| Chain of | 53 | GE A |
| ວົ | H | PA |

| Client Name: Envirologic Technologies | PARAMETERS | ETERS | Matrix Code | Deliverables |
|--|-------------------------------------|----------------------------------|----------------------|--------------|
| Contact Person: Dave Strain | 57 | S | Soil Gw Ground Water | Level 2 |
| | | ₹ V | r Sw Surface Water | Level 3 |
| 603 | العاره | 376 | II ww Waste Water | Level 4 |
| Email distribution list: | _ | IMA2 C | wipe x Other Specify | EDD |
| | TAINE Poor | ПОН | Aspertos bull Ca | Samples |
| e Order# | COV | | | |
| me Sample # Client Sample Descriptor | _ | Remarks: | urks: | |
| | _ | | | |
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| ٦ | + | | | |
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| wed-15-01 garage for paper | + | | | |
| - West-16-01 garaseroof shireles | + | | | |
| Lucst-17-01 garase windows starm | 4 | 16. | | |
| West-18-01. wall Incheon | + + | | | |
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| Sampled/Relinquished, 8y; Mud WW | Date/ Time | See Andre | Ph:01 L1/81/1 - | |
| Ph/01 11/8117 10/49 | Date/Time Recei | Even Ferth | 1-4-17 C | |
| | Date/ Time Recei | Received By/Caboratory: | | |
| <u>Turnaround Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY | USINESS DAY | | LAB USE ONLY | |
| 1 bus. day 2 bus. days 3 bus. days | 4 bus. days | Fibertec project number: | umber: | |
| 4 5-7 bus. days (standard) Other (specify time/date requirement): | | Temperature upon receipt at Lab: | n receipt at Lab: | |
| Please see | e see back for terms and conditions | ditions | | |

APPENDIX D

PHOTOGRAPHS







WEST HOUSE HA-01 9 BY 9 INCH BLACK FLOOR TILE & WEST HA-02 9 BY 9 INCH RED FLOOR TILE



WEST HOUSE HA-03 9 BY 9 INCH RECTANGULAR PATTERN FLOOR TILE





WEST HOUSE HA-04 9 BY 9 INCH TAN FLOOR TILE & WEST HA-05 9 BY 9 INCH OFF-WHITE



WEST HOUSE HA-09 INTERIOR WINDOW GLAZING





WEST HOUSE HA-13 EXTERIOR WINDOW GLAZING



WEST HOUSE HA-17 GARAGE WINDOW GLAZING





EXTERIOR VIEW OF WEST HOUSE AND GARAGE

APPENDIX E

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH FORM



NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) AIR QUALITY DIVISION NESHAP, 40 CFR Part 61, Subpart M

| | | 4 | | , | _ | Ĺ |
|------------|-----|------|----|-----|-----|---|
| LICENSING | AND | ALC: | Ĺ | M | AFF | ٩ |
| CHITTONNIA | DOM | N 8 | OM | 100 | MA | |

MICHIGAN DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS (LARA), ASBESTOS PROGRAM, P.A. 135 OF 1986, AS AMENDED, Section 220 (1-4) or (8)

| | | | | | (: :) =: (:) |
|--|--|--|-------------------------------------|------------------------|----------------|
| DEQ/LARA USE ONLY | | 3. ABATEMEN | NT CONTRACTOR: | Internal Project | # : |
| Postmark Date/ Rec'd Date | , , | | | | |
| | | | ress: | | |
| Emergency Date// Valid No | | | ip: | | |
| ☐ OK ☐ Send Def Ltr. Date of Def Ltr | _// | | | | |
| III | | | | | |
| Comments: | | | ON CONTRACTOR: | • | #: |
| | | | | | |
| | | | ress: | | |
| N. Co. C. M. T. M. | | | ip: | | |
| Notification NoTrans No | / | | | | |
| Calculate LARA Asbestos Project Fee: | (1% Project Fee) | Contact: | | Pnone: | |
| Total Project Cost: x 0.01 = | | | WNER: ("Facility" inclu | 0 , | |
| Type of Contractor: License No.: | | | | | |
| Licensing Authority: | | J | ress: | | |
| 1. NOTIFICATION: | | | ip: | | |
| Date of Notification: | | | | | |
| Date of Revision(s): | | Contact: | | _ Phone: | |
| () | 6. FACILITY DESCRIPTION: | | | | |
| Notification Type: ☐ Original ☐ Revised ☐ Canceled | Facility Name: | | | | |
| Mark appropriate boxes: (both DEQ and LARA may ap | Location Address/Description: | | | | |
| DEQ (NESHAP) [260 In. ft./160 sq. ft. or more is thresh ☐ Planned Renovation – 10 working days notice | If Apt. # of units: City/Twp State: Zip Code: | | | | |
| ☐ Emergency Renovation | | | | | |
| ☐ Scheduled Demolition – 10 working days notice | | Neares) No. of I | | | |
| ☐ Intentional Burn – 10 working days notice☐ Ordered Demolition☐ | | No. 011 Present Use: | | | |
| LARA (MIOSHA) [Will not accept annual notifications] | | | cation(s) in Facility: | | |
| □ Demo, Reno, Encap. (>10 In. ft./15 sq. ft.) 10 calendar □ Emergency Renovation/Encapsulation | <u>r</u> days notice | Opcomo Loc | ation(o) in r dointy. | | |
| 2. PROJECT SCHEDULE: | | 7. DISPOSAL | SITF: | | |
| | D DATE | | | | |
| * Renovation | DUNIE | | dress: | | |
| . Ash. Damaral | | | · | | |
| +Asb. Removal | _ | City/State/Z | ip: | | |
| +Demolition: | | 8. WASTE TR | ANSPORTER 1: | WASTE TRAN | SPORTER 2: |
| Encapsulation: | | Name: | | | |
| Work Schedule: Please indicate the anticipated days of work hours for the purpose of scheduling a compliance install. | | Address: | | | |
| | • | City/State/Zip | : | | |
| • | ork Hours | Phone: | _ | | |
| Asb. Removal: | | | DEMOLITIONS: (See | | |
| Demolition: | | "Ordered De | emolition.") A copy of the | ne official Order must | accompany this |
| Encapsulation: | 1.00 | | ov Ordering Domes | | |
| * Includes setup, build enclosure, asbestos removal, demo +Include only those dates you are conducting asbestos re | | Gov't Agency Ordering Demo: Name/Title of Person Signing Order: | | | |
| | | Name/Title | of Person Signing Orde | er: | |
| Check here if this is a multi-phased project, attach a so the start/end date of each phase. | chedule showing | | | | |
| the startend date of each phase. | | Date of Orde | er: | _ Date Ordered to B | Begin: |
| 10. IS ASBESTOS PRESENT? ☐ Yes ☐ No | ☐ To be remove | d prior to demolitic | | | |
| Followed the same of the board of the same | RACM to be | DACM++++ | Non-friable ACM removed prior to de | | |
| Estimate the amount of asbestos: Include RACM (Regulated Asbestos Containing Material) to be | Removed | RACM to be Encapsulated | • | | of Measure |
| removed, encapsulated, etc. Also include the amount | | | | ☐ Ln. Ft. | ☐ Ln. M. |
| and type (floor tile, roofing, etc.) of non-friable Category | | | | □ Sq. Ft. | ☐ Sq. M. |
| I and/or Category II ACM that <u>will not</u> be removed prior to demolition. (NOTE: In a demolition, cementatious | i | | | | |
| | | | | │ | □ Cu.M.* I |
| ACM <u>cannot</u> remain in a structure, as it is likely to become regulated in the demolition/handling process. | | | | ☐ Cu. Ft.* | ☐ Cu.M.* |

(example: asbestos has fallen off of surface).

NOTIFICATION OF INTENT TO RENOVATE/DEMOLISH (continued)

| 11. | 11. PROJECT DESCRIPTION: Complete A) for Renovation (asbestos removal/encapsulation) and/or B) for Demolition: | | | | | |
|-----|---|--|--|--|--|--|
| | A) RENOVATION: Mark all surfaces/types of RACM to be removed: Piping Fittings Boiler(s) Tanks(s) Beam(s) Duct(s) Tunnel(s) Ceiling Tile(s) Mag Block Other (describe) | Encapsulation (for LARA): Mark surfaces/types to be encapsulated: ☐ Piping ☐ Fittings ☐ Boiler(s) ☐ Tank(s) ☐ Beam(s) ☐ Duct(s) ☐ Tunnel(s) ☐ Ceiling Tile(s) ☐ Other (describe) | | | | |
| | Method of removal: Describe <u>how</u> the asbestos will be removed from the surface (example: glove bag, scrape with hand tools, cut in sections and | | | | | |
| | carefully lower, etc.): | | | | | |
| | | | | | | |
| | , | tc., and indicate if complete or partial. If partial, describe which part of facility | | | | |
| | bridge, etc., will be demolished: | | | | | |
| 12. | ENGINEERING CONTROLS : Describe work practices and engineering until proper disposal: | controls used to prevent visible emissions before, during, and after removal, and | | | | |
| | | | | | | |
| | | | | | | |
| 13. | | n the event that unexpected RACM is found or previously non-friable asbestos efore regulated: | | | | |
| | | | | | | |
| 14. | 4. PROCEDURE(S) USED TO DETECT THE PRESENCE OF ASBESTOS: A) Indicate how you determined whether or not asbestos is in the facility. If analytical sampling was used, describe method of analysis. (The determination of the presence or absence of asbestos must be made prior to submitting a renovation/demolition notification.): | | | | | |
| | B) Name, address, and phone number of company performing asbestos survey: | | | | | |
| | C) Name, accreditation number of inspector, and date of inspection: | | | | | |
| 15. | | | | | | |
| | | | | | | |
| | Explain how the event caused unsafe conditions, and/or would cause equipment damage and/or an unreasonable financial burden: | | | | | |
| | | | | | | |
| 16. | 6. I certify that an individual trained in the provisions of 40 CFR Part 61, Subpart M, will be on-site during the renovation and during demolition involving RACM above the threshold and/or during an ordered demolition. Evidence that this person has completed the required training will be available for inspection at the renovation or demolition site. | | | | | |
| | Signature of Owner or Abatement Contractor Date | Signature of Owner or Demolition Contractor Date | | | | |
| 17. | 7. Signature Requirements for Projects with Negative Pressure Enclosures: (required by LARA) Per Section 221(1)(2) of P.A. 135 of 1986, as amended, clearance air monitoring is required for any asbestos abatement project involving 10 linear feet/15 square feet or more of friable material which is performed within a negative pressure enclosure. I (the building owner or lessee) have been advised by the contractor of my responsibility under Act 135 to have clearance air monitoring performed on this project. | | | | | |
| | Signature of Building Owner or Lessee Date Signature of Asbestos Abatement Contractor Representative Date NOTE: It is not mandatory that a signed copy be sent to LARA unless requested. For affected projects, this section of the notification form must be completed, signed, and made part of your records before the project begins. | | | | | |
| 18. | I certify that the above information is correct: | | | | | |
| | Printed Name of Owner/Operator Date | Signature of Owner/Operator Date | | | | |
| MA | ILING ADDRESSES/PHONE NUMBERS: (See Item 1 to determine | which agency requirements/regulations are applicable to your project.) | | | | |
| mai | Public Act 135 of 1986, as amended, Section 220 (1-4) or (8), I to address below. For more info visit: ://www.michigan.gov/asbestos | For NESHAP Demolitions/Renovations , 40 CFR , Part 61 , Subpart M , please use the e-submittal process. For more information visit http://www.michigan.gov/air , under Air Links click on Asbestos NESHAP Program. | | | | |
| | OSHA Asbestos Program | NESHAP Asbestos Program | | | | |
| | RA, CSHD). Box 30671 | DEQ, AQD P.O. Box 30260 Lansing ML 48909-7760 | | | | |
| | ising, MI 48909-8171 | Lansing, MI 48909-7760 | | | | |
| 517 | 7.636.4551 (office), 517.322.1713 (fax) | 517.284.6777 (Office) | | | | |

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